

Issuance of Ionizing Radiation Dosimeters at the APS

Approvals and Revisions

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Policy

Wearing a personal radiation thermoluminescent dosimeter (TLD) is required for access to any radiologically controlled area that is posted by the Argonne Health Physics Group as *Controlled Area, TLD required for entry*. TLDs will be regularly issued to APS personnel/users who must routinely enter these posted areas. For the purposes of this policy, routine access is at least once per calendar quarter. For infrequent access to these areas (typically less than once per calendar quarter), a TLD will not be regularly issued and a visitor TLD may be obtained from the Main Control Room or the User Office on an as-needed basis.

According to ANL ESH Manual Chapter 5, dosimeters are also required for specific activities for which there may be radiation exposure hazards (e.g., handling radioactive sources or materials, or operation of an analytic x-ray generator). TLDs will be regularly issued to APS personnel/users who routinely require a TLD for these activities. For those that infrequently engage in these activities (typically less than once per calendar quarter), a TLD will not be regularly issued, and a visitor TLD may be obtained from the Main Control Room or the User Office on an as-needed basis.

While specific areas may require a TLD for access, in general, TLDs are **not** required for access to the majority of the APS Experiment Hall and the top of the storage ring tunnel. TLDs will not be regularly issued to personnel/users who work in the Experiment Hall unless they need to routinely access areas or engage in activities specifically requiring a TLD in accordance with Argonne standards.

A person who is not regularly issued a dosimeter may request automatic issuance of TLDs. The request should be made to their Division Director, or the AES Division Director in the case of non-APS users, and should explain why the dosimetry is sought.